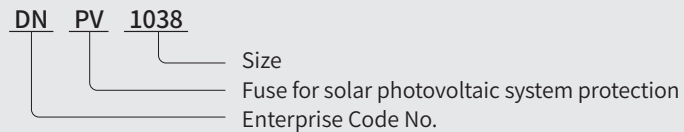


# Fuse for solar photovoltaic system protection



## Model and meaning



## Normal working conditions

1. Ambient air temperature: The ambient air temperature  $T_a$  does not exceed  $40^{\circ}\text{C}$ , the average value measured in 24 hours does not exceed  $35^{\circ}\text{C}$ , and the average value measured within one year is lower than this value. The minimum ambient air temperature is  $-5^{\circ}\text{C}$ .
2. Altitude: The altitude of the installation site does not exceed 2000m.
3. Atmospheric conditions: The air is clean, and its relative humidity does not exceed 50% when the maximum temperature is  $40^{\circ}\text{C}$ . It can have higher relative humidity at lower temperatures, for example: at  $20^{\circ}\text{C}$ , the relative humidity can reach 90 %. Under these conditions, moderate condensation may occasionally occur due to temperature changes.

## Ordering Instructions

Users should provide the following information when ordering:

DNPV1038 Solar photovoltaic system protection fuse to describe the specification model, rated current, rated voltage and quantity.

For example:

DNPV1038-10A/1000V DC

# DNPV1038

## Fuse for solar photovoltaic system protection



### Product description

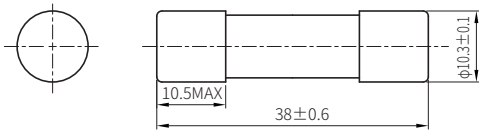
This series of fuses is suitable for solar photovoltaic systems and is mainly used in photovoltaic combiner boxes as short circuit and overload protection for photovoltaic power generation devices and other semiconductor equipment, thereby protecting the overall solar photovoltaic panels. This series of fuses is suitable for 1000V DC, rated current 2A~32A.

|                     |                            |
|---------------------|----------------------------|
| Rated voltage       | 1000V DC                   |
| Rated current       | 2~32A                      |
| Protection category | gPV                        |
| Breaking capacity   | 2~20A(35kA), 25~32A (20kA) |
| Time constant       | 1~3ms                      |
| Reference standard  | GB/T 13539.6 IEC 60269-6   |

### Product parameter

| Model No.             | Size  | Rated voltage (V) | Rated current (A) | 0.8In Power dissipation(W) | 1.0In Power dissipation(W) | Weight (g) | Fuse support |
|-----------------------|-------|-------------------|-------------------|----------------------------|----------------------------|------------|--------------|
| DNPV1038-2A/1000V DC  | 10X38 | 1000              | 2                 | 0.68                       | 1.36                       | 11±1       | DNPVF1-32    |
| DNPV1038-3A/1000V DC  |       |                   | 3                 | 0.75                       | 1.42                       |            |              |
| DNPV1038-4A/1000V DC  |       |                   | 4                 | 0.94                       | 1.58                       |            |              |
| DNPV1038-5A/1000V DC  |       |                   | 5                 | 0.98                       | 1.83                       |            |              |
| DNPV1038-6A/1000V DC  |       |                   | 6                 | 1.1                        | 1.84                       |            |              |
| DNPV1038-8A/1000V DC  |       |                   | 8                 | 1.13                       | 1.86                       |            |              |
| DNPV1038-10A/1000V DC |       |                   | 10                | 1.21                       | 2.08                       |            |              |
| DNPV1038-12A/1000V DC |       |                   | 12                | 1.38                       | 2.62                       |            |              |
| DNPV1038-15A/1000V DC |       |                   | 15                | 1.67                       | 2.95                       |            |              |
| DNPV1038-16A/1000V DC |       |                   | 16                | 1.73                       | 3                          |            |              |
| DNPV1038-20A/1000V DC |       |                   | 20                | 1.92                       | 3.12                       |            |              |
| DNPV1038-25A/1000V DC |       |                   | 25                | 2.1                        | 3.46                       |            |              |
| DNPV1038-30A/1000V DC |       |                   | 30                | 2.3                        | 3.78                       |            |              |
| DNPV1038-32A/1000V DC |       |                   | 32                | 2.5                        | 4                          |            |              |

### Overall dimensions (mm)



# DNPV1451

## Fuse for solar photovoltaic system protection



### Product description

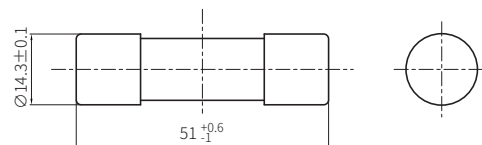
This series of fuses is suitable for solar photovoltaic systems and is mainly used in photovoltaic combiner boxes as short circuit and overload protection for photovoltaic power generation devices and other semiconductor equipment, thereby protecting the overall solar photovoltaic panels. This series of fuses is suitable for 1000V DC, rated current 12A~50A.

|                      |                          |
|----------------------|--------------------------|
| Size                 | 14x51                    |
| Rated Voltage        | 1000V DC                 |
| Rated Current        | 12~50A                   |
| Utilization Category | gPV                      |
| Breaking Capacity    | 30kA                     |
| Fuse Support Parts   | DNPVF1-63                |
| Reference Standards  | GB/T 13539.6 IEC 60269-6 |

### Product parameter

| Model No.             | Size  | Rated voltage (V) | Rated current (A) | 0.8In Power dissipation(W) | 1.0In Power dissipation(W) | Weight (g) | Fuse support |
|-----------------------|-------|-------------------|-------------------|----------------------------|----------------------------|------------|--------------|
| DNPV1451-10A/1000V DC | 14X51 | DC 1000           | 10                | 2.5                        | 3.8                        | 14.5±2     | DNPVF1-32L   |
| DNPV1451-12A/1000V DC |       |                   | 12                | 3.0                        | 4.8                        |            |              |
| DNPV1451-16A/1000V DC |       |                   | 16                | 3.1                        | 5                          |            |              |
| DNPV1451-20A/1000V DC |       |                   | 20                | 3.5                        | 6.2                        |            |              |
| DNPV1451-25A/1000V DC |       |                   | 25                | 4.0                        | 7.2                        |            |              |
| DNPV1451-30A/1000V DC |       |                   | 30                | 4.5                        | 8                          |            |              |
| DNPV1451-32A/1000V DC |       |                   | 32                | 5                          | 8.4                        |            |              |
| DNPV1451-40A/1000V DC |       |                   | 40                | 4.5                        | 7.6                        |            |              |

### Overall dimensions (mm)



# DNPV2258

## Fuse for solar photovoltaic system protection



### Product description

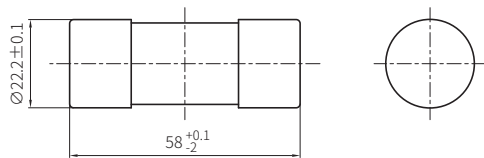
This series of fuses is suitable for solar photovoltaic systems and is mainly used in photovoltaic combiner boxes as short circuit and overload protection for photovoltaic power generation devices and other semiconductor equipment, thereby protecting the overall solar photovoltaic panels. This series of fuses is suitable for 1000V DC, rated current 25A ~ 80A.

|                      |                          |
|----------------------|--------------------------|
| Size                 | 22x58                    |
| Rated Voltage        | 1000V DC                 |
| Rated Current        | 25~80A                   |
| Utilization Category | gPV                      |
| Breaking Capacity    | 30kA                     |
| Fuse Support Parts   | DNPVF1-125               |
| Reference Standards  | GB/T 13539.6 IEC 60269-6 |

### Product parameter

| Model No.            | Size  | Rated voltage (V) | Rated current (A) | 0.8In Power dissipation(W) | 1.0In Power dissipation(W) | Weight (g) | Fuse support |
|----------------------|-------|-------------------|-------------------|----------------------------|----------------------------|------------|--------------|
| DNPV2258-25A/1000 DC | 22X58 | DC 1000           | 25                | 4.1                        | 7.3                        | 13.5±2     | DNPVF1-125   |
| DNPV2258-32A/1000 DC |       |                   | 32                | 5.2                        | 8.4                        |            |              |
| DNPV2258-40A/1000 DC |       |                   | 40                | 4.5                        | 8                          |            |              |
| DNPV2258-45A/1000 DC |       |                   | 45                | 5.0                        | 6.2                        |            |              |
| DNPV2258-50A/1000 DC |       |                   | 50                | 5.7                        | 9.5                        |            |              |
| DNPV2258-80A/1000 DC |       |                   | 80                | 7.5                        | 10.2                       |            |              |

### Overall dimensions (mm)



# DNPV1085

## Fuse for solar photovoltaic system protection



### Product description

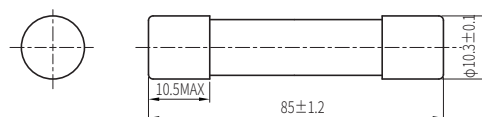
This series of fuses is suitable for solar photovoltaic systems and is mainly used in photovoltaic combiner boxes as short circuit and overload protection for photovoltaic power generation devices and other semiconductor equipment, thereby protecting the overall solar photovoltaic panels. This series of fuses is suitable for 1500V DC, rated current 2A ~ 32A.

|                      |                          |
|----------------------|--------------------------|
| Size                 | 10x85                    |
| Rated Voltage        | 1500V DC                 |
| Rated Current        | 2~32A                    |
| Utilization Category | gPV                      |
| Breaking Capacity    | 20kA                     |
| Fuse Support Parts   | DNPVF1-32L               |
| Reference Standards  | GB/T 13539.6 IEC 60269-6 |

### Product parameter

| Model No.             | Size  | Rated voltage (V) | Rated current (A) | 0.8In Power dissipation(W) | 1.0In Power dissipation(W) | Weight (g) | Fuse support |
|-----------------------|-------|-------------------|-------------------|----------------------------|----------------------------|------------|--------------|
| DNPV1085-2A/1500V DC  | 10X38 | 1500              | 2                 | 1.0                        | 2.0                        | 12.5±2     | DNPVF1-32L   |
| DNPV1085-3A/1500V DC  |       |                   | 3                 | 1.1                        | 2.1                        |            |              |
| DNPV1085-4A/1500V DC  |       |                   | 4                 | 1.2                        | 2.2                        |            |              |
| DNPV1085-5A/1500V DC  |       |                   | 5                 | 1.4                        | 2.4                        |            |              |
| DNPV1085-6A/1500V DC  |       |                   | 6                 | 1.5                        | 2.6                        |            |              |
| DNPV1085-8A/1500V DC  |       |                   | 8                 | 1.8                        | 3.0                        |            |              |
| DNPV1085-10A/1500V DC |       |                   | 10                | 2.2                        | 3.5                        |            |              |
| DNPV1085-12A/1500V DC |       |                   | 12                | 2.5                        | 3.8                        |            |              |
| DNPV1085-15A/1500V DC |       |                   | 15                | 3.0                        | 4.8                        |            |              |
| DNPV1085-16A/1500V DC |       |                   | 16                | 3.1                        | 5                          |            |              |
| DNPV1085-20A/1500V DC |       |                   | 20                | 3.5                        | 6.2                        |            |              |
| DNPV1085-25A/1500V DC |       |                   | 25                | 4.0                        | 7.2                        |            |              |
| DNPV1085-30A/1500V DC |       |                   | 30                | 4.5                        | 8                          |            |              |
| DNPV1085-32A/1500V DC |       |                   | 32                | 5                          | 8.4                        |            |              |

### Overall dimensions (mm)



# DNPV1485

## Fuse for solar photovoltaic system protection



### Product description

This series of fuses is suitable for solar photovoltaic systems and is mainly used in photovoltaic combiner boxes as short circuit and overload protection for photovoltaic power generation devices and other semiconductor equipment, thereby protecting the overall solar photovoltaic panels. This series of fuses is suitable for 1500V DC, rated current 12A ~ 50A.

|                      |                          |
|----------------------|--------------------------|
| Size                 | 14x85                    |
| Rated Voltage        | 1500V DC                 |
| Rated Current        | 12~50A                   |
| Utilization Category | gPV                      |
| Breaking Capacity    | 20kA                     |
| Fuse Support Parts   | DNPVF1-32L               |
| Reference Standards  | GB/T 13539.6 IEC 60269-6 |

### Product parameter

| Model No.             | Size  | Rated voltage (V) | Rated current (A) | 0.8In Power dissipation(W) | 1.0In Power dissipation(W) | Weight (g) | Fuse support |
|-----------------------|-------|-------------------|-------------------|----------------------------|----------------------------|------------|--------------|
| DNPV1485-12A/1500V DC | 14X85 | 1500              | 12                | 2.5                        | 3.8                        | 12.5±2     | DNPVF1-32L   |
| DNPV1485-15A/1500V DC |       |                   | 15                | 3.0                        | 4.8                        |            |              |
| DNPV1485-16A/1500V DC |       |                   | 16                | 3.1                        | 5                          |            |              |
| DNPV1485-20A/1500V DC |       |                   | 20                | 3.5                        | 6.2                        |            |              |
| DNPV1485-25A/1500V DC |       |                   | 25                | 4.0                        | 7.2                        |            |              |
| DNPV1485-30A/1500V DC |       |                   | 30                | 4.5                        | 8                          |            |              |
| DNPV1485-32A/1500V DC |       |                   | 32                | 5                          | 8.4                        |            |              |
| DNPV1485-40A/1500V DC |       |                   | 40                | 4.5                        | 7.6                        |            |              |
| DNPV1485-50A/1500V DC |       |                   | 50                | 5.7                        | 9.5                        |            |              |

### Overall dimensions (mm)

